

What is claimed is:

1 1. An inkjet cartridge for dispensing a predetermined
2 amount of fluids comprising:

3 an inkjet print head having a plurality of channels; and
4 an array of capillary tubes, filled with predetermined
5 fluids, disposed on the inkjet print head so as to communicate
6 with the channels respectively and provide capillarity
7 sufficient to prevent the fluids in the capillary tubes from
8 leaking through the channels but not so great as to prevent
9 the fluids in the capillary tubes from dispensing through the
10 channels.

1 2. The inkjet cartridge as claimed in claim 1, wherein
2 the inkjet print head comprises:

3 a base, having a plurality of first through holes
4 corresponding to the capillary tubes respectively, for
5 receiving the capillary tubes;

6 an inkjet chip, for actuating the fluids in the capillary
7 tubes to dispense, disposed on the base and provided with a
8 plurality of second through holes corresponding to the first
9 through holes respectively; and

10 a nozzle plate, for dispensing the fluids in the
11 capillary tubes, disposed on the inkjet chip and provided with
12 a plurality of orifices corresponding to the second through
13 holes respectively, wherein the first through holes, the
14 second through holes and the orifices form the channels
15 respectively.

1 3. The inkjet cartridge as claimed in claim 2, wherein
2 the inkjet chip is adhered to the base.

1 4. The inkjet cartridge as claimed in claim 2, wherein
2 the nozzle plate is adhered to the inkjet chip.

1 5. The inkjet cartridge as claimed in claim 1, wherein
2 each of the capillary tubes is filled with gel-like materials
3 above the received fluid so as to prevent the fluid from
4 leaking.

1 6. The inkjet cartridge as claimed in claim 1, wherein
2 each of the capillary tubes is filled with oil-like materials
3 above the received fluid so as to prevent the fluid from
4 leaking.

1 7. The inkjet cartridge as claimed in claim 1, wherein
2 the inkjet print head is thermal bubble type.

1 8. The inkjet cartridge as claimed in claim 1, wherein
2 the inkjet print head is piezoelectric pressure wave type.

1 9. The inkjet cartridge as claimed in claim 1, further
2 comprising:

3 a cap, with a pressure regulator, disposed on the
4 capillary tubes so that the capacity of the fluid in the
5 capillary tube can be enlarged without causing leakage.

1 10. A cartridge for dispensing a predetermined amount
2 of reagents comprising:

3 a print head having a plurality of channels; and
4 an array of capillary tubes, filled with predetermined
5 reagents, disposed on the print head so as to communicate with
6 the channels respectively and provide capillarity sufficient
7 to prevent the reagents in the capillary tubes from leaking
8 through the channels but not so great as to prevent the
9 reagents in the capillary tubes from dispensing through the
10 channels.

11. The cartridge as claimed in claim 10, wherein the print head comprises:

a base, having a plurality of first through holes corresponding to the capillary tubes respectively, for receiving the capillary tubes;

a inkjet chip, for actuating the reagents in the capillary tubes to dispense, disposed on the base and provided with a plurality of second through holes corresponding to the first through holes respectively; and

a nozzle plate, for dispensing the reagents in the capillary tubes, disposed on the inkjet chip and provided with a plurality of orifices corresponding to the second through holes respectively, wherein the first through holes, the second through holes and the orifices form the channels respectively.

12. The cartridge as claimed in claim 11, wherein the inkjet chip is adhered to the base.

13. The cartridge as claimed in claim 11, wherein the nozzle plate is adhered to the inkjet chip.

14. The cartridge as claimed in claim 10, wherein each of the capillary tubes is filled with gel-like materials above the received reagent so as to prevent the reagent from leaking.

15. The cartridge as claimed in claim 10, wherein each of the capillary tubes is filled with oil-like materials above the received reagent so as to prevent the reagent from leaking.

16. The cartridge as claimed in claim 10, wherein the

2 print head is thermal bubble type.

1 17. The cartridge as claimed in claim 10, wherein the
2 print head is piezoelectric pressure wave type.

1 18. The cartridge as claimed in claim 10, further
2 comprising:

3 a cap, with a pressure regulator, disposed on the
4 capillary tubes so that the capacity of the fluid in the
5 capillary tube can be enlarged without causing leakage.